

[illegible]

FIG. 2-1

| | |
|---|------|
| gatctgtaatccagcactggggagggttgaggcagaagatctggagggtccagaccaatctgggcaacatatagaaaagactatctcaacaataagataaccttagggagagcatccaagc | 120 |
| agaagagggcctatcttggatggtttgggttcggtttttttgttttgccttcttggatggttgccttcttggtaaagtgggtgcgggggtttctcttcttcttgcagggtt | 240 |
| gctctagggttcgccaggaagagctctgagctccaggaaaccggtgctgagggagtgtcaagacaggacgcacctctccacctcaattcccacagaggcctctcttgtgactatt | 360 |
| ggagcgtgttctctttaaaagacgcactctccccgcaactaggtgtacatgggggttgagatggaggaaagtacagactaccagacaattagggaagatggccccagctggaag | 480 |
| agtcgtctcccaagccctactgtcccttccctaagcacagcggtctggggagggggaaccttccccaccggcgccacacgag | 591 |
| ATG GCT CCG TGG CCT CAC AGA AAC M A P W P H R N | 8 |
| GGC TCT CTG GCT TTG TGG TCG GAC GCC CCT ACC CTG GAC CCC AGT GCA GCC AAC ACC AGT GGG TTG CCA GGA GTA CCA TGG GCA GCG GCA | 681 |
| G S L A L W S D A P T L D P S A A N T S G L P G V P W A A A | 38 |
| TTG GCT GGG GCA TTG CTG GCG CTG GCC ACN CTG GGA GGC AAC CTG CTG GTA ATC ATA GCC ATC GCC CGC AGC CGG AGA CTA CAG ACC ATA | 771 |
| L A G A L L A L A T V G G N L L V I I A I A R T P R L Q T I | 68 |
| ACC AAC GTG TTC GTG ACT TCA CTG GCC GCA GCT GAC TTG GTA GTG GGA CTC CTC GTA ATG CCA CCA GGG GCC ACA TTG GCG CTG ACT GGC | 861 |
| T N V F V T S L A A A D L V V G L L V M P P G A T L A L T G | 98 |
| CAT TGG CCC TTG GGC GAA ACT GGT TGC GAA CTG TGG ACN TCA GTG GAC GTG CTC TGT GTA ACT GCT AGC ATC GAG ACC TTG TGC GCC CTG | 951 |
| H W P L G E T G C E L W T S V D V L C V T A S I E T L C A L | 128 |
| GCT GTG GAC GCG TAC CTA GCT GTC ACC AAC CCT TTG CGT TAC GGC ACN CTG GTT ACC AAG CCG CCG GCG GCA GTT GTC CTG GTG | 1041 |
| A V D R Y L A V T N P L R Y G T L V T K R R A A R A A V V L V | 158 |
| TGG ATC GTG TCC GCT GCC GTG TCC TTT GCG CCC ATC ATG AGC CAG TGG TGG CGT GTA GGC GCA GAT GCC GAG GCA CAG GAA TGC CAC TCC | 1131 |
| W I V S A A V S F A P I M S Q W W R V G G A D A E A Q E C H S | 188 |
| AAT CCG CCG TGC TGT TCC TTT GCC TCC AAC ATG CCC TAT GCG CTG CTC TCC TCC TCC TCC TCC TCC TCC TCC TCC TCC TCC TCC TCC TCC TCC | 1221 |
| N P R C C S F A S N M P Y A L L S S S V S F Y L P L L V M L | 218 |
| TTC GTC TAT GCT CGA GTG TTC GTT GTG GCT AAK CCG CAT TTG CTG CCG CGG GAA CTG GGC CCG TTC TCG CCC GAG GAG TCT CCG | 1311 |
| F V Y A R V F V V A K R Q R H L L R R E L G R F S P E S P | 248 |
| CCG TCT CCG TCG CGC TCT CCG TCC CCT GCG ACA GGC GGG ACA CCC GCG GCA CCG GAT GGA GTG CCC TGC GGC CGG CGG CCT GCG CGC | 1401 |
| P S P S R S P S P A T G G T P A A P D G V P P C G R R P A R | 278 |
| CTC CTC CCA CTC CCG GAA CAC CCG GCG CTG CCG ACC TTA GGT CTC ATT ATG GGC ATC TTC TCT TCG TGG CTG CCC TTC TTC CTG GCC | 1491 |
| L L P L R E H R A L R T L G L I M G I F S L C W L P F L A | 308 |
| AAC GTG CTG CCG GCA CTC GCG GGG CCC TCT CTA GTT CCC AGC GGA GTT TTC ATC GCC CTG AAC TGG GGC TAT GCC AAC TCC GCC TTC | 1581 |
| N V L R A L A G P S L V P S G V F I A L N W L G Y A N S A F | 338 |
| AAC CCG GTC ATC TAC TGC CCG AGC CCG GAC TTT CCG GAC GCC TTC CGT CGT CTT CTG TGT AGC TAC GGT GGC CGT GGA CCG GAG GAG CCA | 1671 |
| N P V I Y C R S P D F R D A F R R L L C S S Y G G R G P E P | 368 |
| CGC GCA GTC ACC TTC CCA GCC AGC CCT GTT GAA GCC AGG CAG AGT CCA CCG CTC AAC AG gtaggggacacgagcgggggaccggagtcctctgggtgggga | 1771 |
| R A V T F P A S P V E A R Q S P P L N R Donor 1 | 387 |

FIG. 2-2

[illegible]

FIG. 3

AMINO-ACID SEQUENCE OF THE HUMAN B3-ADRENERGIC RECEPTOR GENE

| | | | | | | | |
|------------|-------------|------------|------------|------------|------------|------------|------------|
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 |
| MAPWPHENSS | LAPWDLPTL | APNTANTSGL | PGVPWEAALA | GALLALAVLA | TVGGNLLVIV | AIAWTPRLQT | MTNVFVTSLA |
| 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 |
| AADLYMGLLV | VPPAATLALT | GHWPLGATGC | ELWTSVDVLC | VTASIELTCA | LAVDRYLAVT | NPLRYGALVT | KRCARTAVVL |
| 170 | 180 | 190 | 200 | 210 | 220 | 230 | 240 |
| VWVVSAAVSF | APIMSQWWRV | GADAEQRCH | SNPRCCAFAS | NMPYVLLSSS | VSFYLPLLVM | LFVYARVFVV | ATRQLRLLRG |
| 250 | 260 | 270 | 280 | 290 | 300 | 310 | 320 |
| ELGRFPPEES | PPAPSRSLAP | APVGTCAppe | GVPACGRRPA | RLPLREHRA | LCTLGLIMGT | FTLCWLPFFL | ANVLRALGGP |
| 330 | 340 | 350 | 360 | 370 | 380 | 390 | 400 |
| SLVPGPAFLA | LNWLGYSANSA | FNPLIYCRSP | DFRSAFRRLL | CRCGRRLPPE | PCAAARPALF | PSGVPAARSS | PAQPRLCQRL |

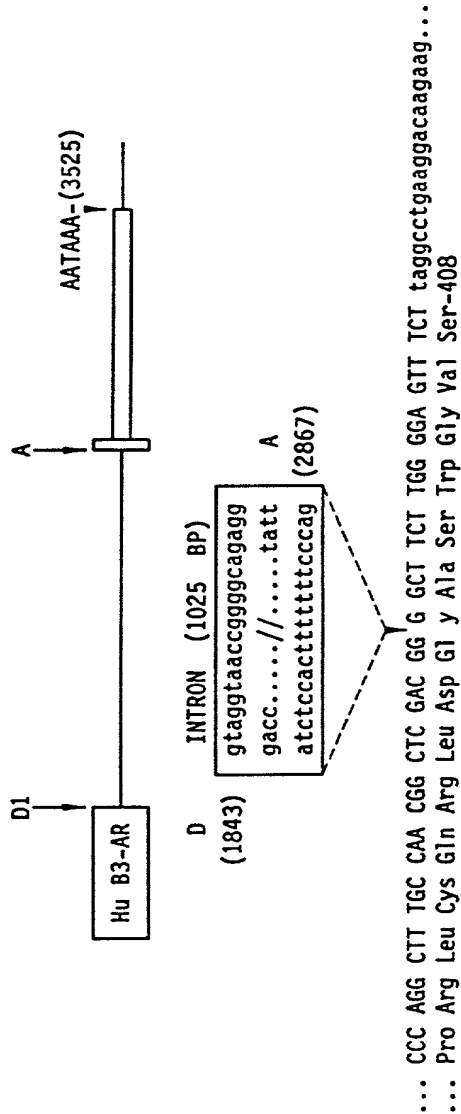
DGASWGVs

FIG. 4

AMINO-ACID SEQUENCE OF THE MOUSE B3-ADRENERGIC RECEPTOR GENE

| | | | | | | | |
|------------|-------------|------------|------------|------------|------------|------------|------------|
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 |
| MAPWPHRNGS | LALWSDAPTL | DPSAANTSGL | PGVPWAAALA | GALLALATVG | GNLLVIAIA | RTPRLQTITN | VFVTSLAAAD |
| 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 |
| LVVGLLVMP | GATLALTGHW | PLGETGCELW | TSVDVLCVTA | SIETLCALAV | DRYLAVTNPL | RYGTLVTKRR | ARAAVVLVWI |
| 170 | 180 | 190 | 200 | 210 | 220 | 230 | 240 |
| VSAAVSFAP | MSQWWRVGAD | AEAECHSNP | RCCSFASNMP | YALLSSSVSF | YLPLLMLFV | YARVFVAKR | QRHLLRREL |
| 250 | 260 | 270 | 280 | 290 | 300 | 310 | 320 |
| RFSPEESPPS | PSRSPSPATG | GTPAAPDGVP | PCGRRPARLL | PLREHRALRT | LGLIMGIFSL | CWLPFFLANV | LRALAGPSLV |
| 330 | 340 | 350 | 360 | 370 | 380 | 390 | 400 |
| PSGVFIALNW | LGYANSANFNP | VIYCRSPDFR | DAFRLLCSY | GGRGPPEEPA | VTFPASPVEA | RQSPPLNRFD | GYEGARPFPT |

FIG. 5A



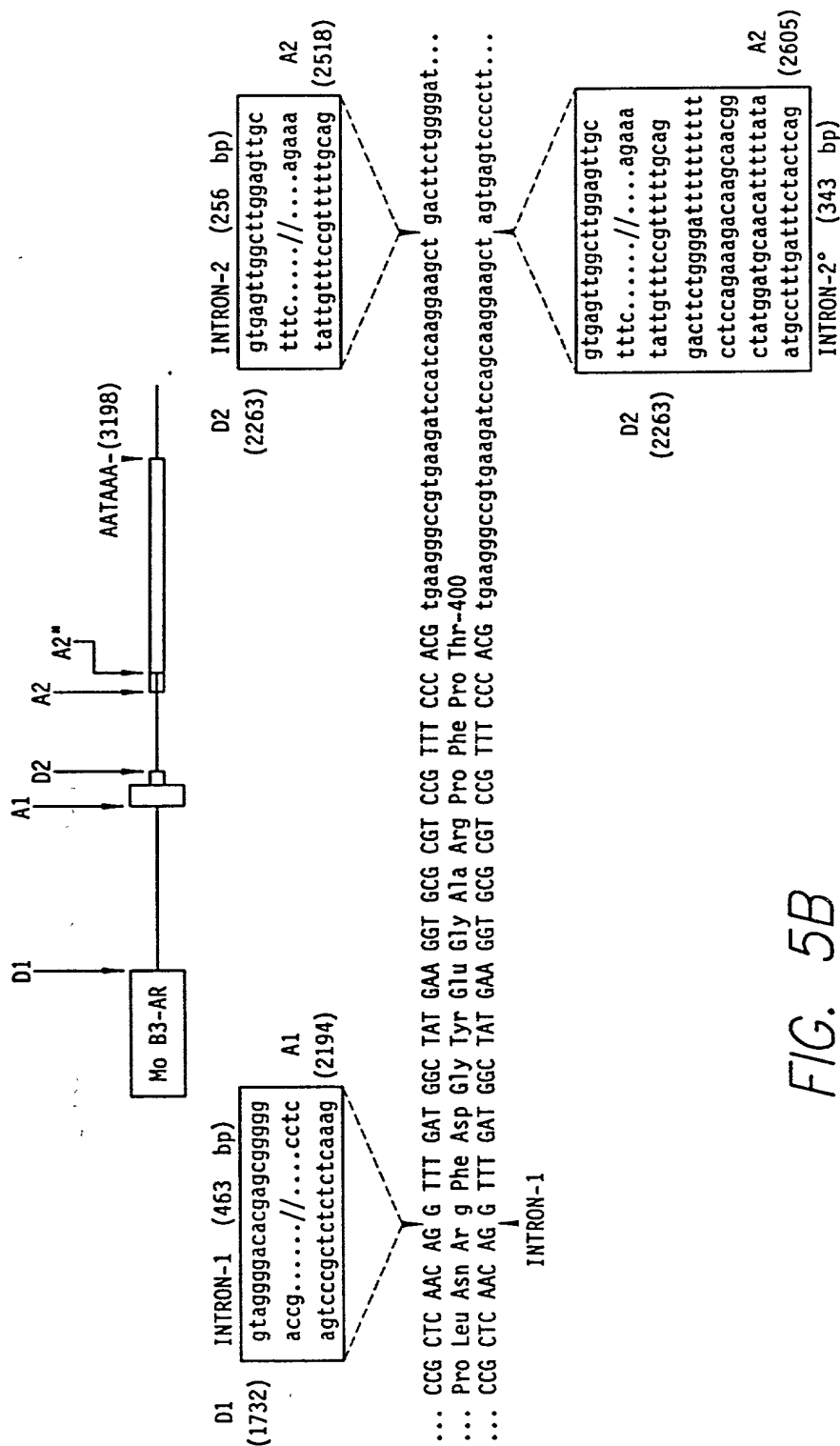


FIG. 5B